INSTRUCTION

THE SX-201 and SX-601 POWER&SWR meter is the most efficient tool in wide range of semi-professional Measuring And control instruments. the measured values can be easily read in the large scale instruments.

The SX-201 and SX-601 is an insertion type RF wattmeter and can be permanently fitted into a transmission System for continuous monitoring of station working condition .

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The unit can be work without external power supply . but with 13.8DC power which permits to light up the Meter and shows the active led corresponding to the selected RF coaxial line (for SX-601 only)

led sensor 1

led sensor 2

sensor1/sensor2 switch

DESCRIPTION OF CONTROL

- **1 POWER/SWR reading meter**
- 2 Indicator adjustment
- **3** Power range switch
- 4 Function switch

5 FWD /REFLECT POWER/OFF SWITCH

REMARK :FIG1/FIG2 FOR SX-201

:FIG3/FIG4 FOR SX-601

6 SWR calibration potential-meter

7 Average pep to pep switch

8 200/1kw select switch

9-12 Antenna connector(connect to the antenna with 50 ohm coaxial cable)

10-13 TX connector (connect to the radio with 50 ohm coaxial cable)

11 Power jack (13.8VDC) light up the meter and sensor 1 / sensor 2 led

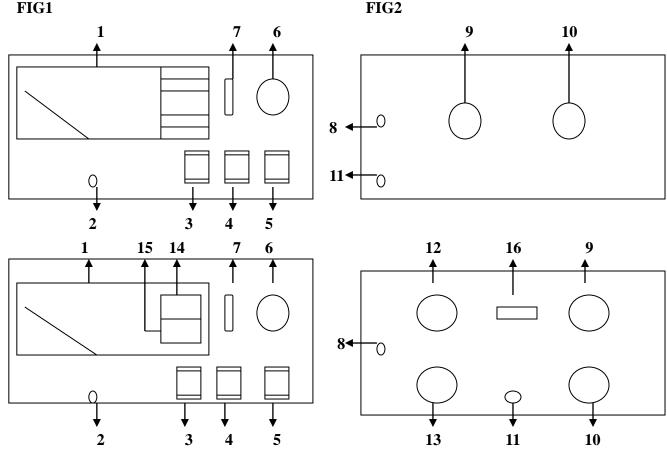




FIG4

INSTALLATION

To install the SX-201 or SX-601 simply connect coaxial cable directed to the antenna connector marked "ANT", and The cable coming from the transmitter or from the linear amplifier to the connector marked "TX"

SX-201 or SX-601 is ready to operate.

POWER MEASUREMENTS

1 Select the RANGE (3) switch on the end-scale position value as to the power of the unit

2 Select the FUNCTION (4) switch in the power position

3 Select the POWER switch the FWD position to measure the direct power(from the radio to antenna)

or REF position to measure the reflected power(from antenna to the radio)

4 Select the power value can be read on the corresponding scale.

SWR MEASUREMENTS

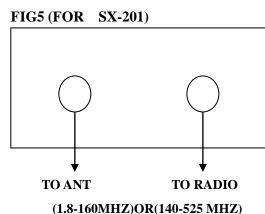
1 Select the RANGE (3) switch on the end-scale position value as to the power of the unit.

2 Select the FUNCTION (4) switch in the CAL position .

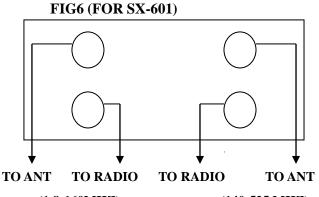
3 Let the radio transmit and adjust the instrument by turning the CAL knob, position the end-scale index in the CAL position.

4 Select the FUNCTION (4) switch in the SWR position

5 Read the SWR value in the above scale.



REMARK: SWR VS. REFLECT POWER



(1.8-160MHZ)

(140-525 MHZ)

SWR (STANDING WAVE RATIO)=	Pfwd -	+ / Prev	SWR	1.0	1.1	1.2	1.5	2.0	2.5	3.0
	Pfwd -	- v Prev	Prev%	0	0.22	0.8	4	11.1	8.4	25.0

SPECIFICATION

POWER MEASURE RANGE :....0.5~400W(5W/20W/200W/1KW) FOR SX-201 ,SX-601 HF BAND POWER MEASURE RANGE :....0.5~400W(5W/20W/200W) FOR SX-601 UHF BAND MINIMUN POWER INPUT :.....0.5W PRECISION:......5W RANGE ±5% ,20W RANGE ±7.5% ,200W RANGE ±10% ,400W RANGE ±12.5% 1KW RANGE ±15% SWR:.....1~INFINITY IMPDANCE:.....50ohm INPUT LOSS:.....0.2db (1.8~160 MHZ),(140~525MHZ)